

L Number	Hits	Search Text	DB	Time stamp
1	36344	((torque angle angular) near3 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)).clm.	USPAT; EPO; JPO	2004/09/20 14:49
2	1888	((((torque angle angular) near3 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)).clm.) and ((light laser) near4 (emit\$5) led lcd).clm.	USPAT; EPO; JPO	2004/09/20 14:29
3	241	((((torque angle angular) near3 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)).clm.) and ((light laser) near4 (emit\$5) led lcd).clm.) and transparent.clm.	USPAT; EPO; JPO	2004/09/20 14:29
4	9	((((torque angle angular) near3 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)).clm.) and ((light laser) near4 (emit\$5) led lcd) near3 (rotor).clm.	USPAT; EPO; JPO	2004/09/20 14:49
5	655782	"9" and (transparent glass)	USPAT; EPO; JPO	2004/09/20 14:37
6	4	(((((torque angle angular) near3 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)).clm.) and ((light laser) near4 (emit\$5) led lcd) near3 (rotor).clm.) and (transparent glass)	USPAT; EPO; JPO	2004/09/20 14:37
7	60	((light laser) near4 (emit\$5) led lcd) near3 (rotor).clm.	USPAT; EPO; JPO	2004/09/20 14:49
8	20	(((light laser) near4 (emit\$5) led lcd) near3 (rotor).clm.) and ((torque angle angular) near3 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5))	USPAT; EPO; JPO	2004/09/20 14:50

L Number	Hits	Search Text	DB	Time stamp
1	2	((("6370222") or ("5260982")).PN.	USPAT; EPO; JPO	2004/09/20 11:08
2	69601	((stress strain force torque angle angular rotation load) near2 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)),.clm.	USPAT; EPO; JPO	2004/09/20 14:08
3	232673	"3" and (light).clm.	USPAT; EPO; JPO	2004/09/20 14:09
4	82120	"4" and (transparent).clm.	USPAT; EPO; JPO	2004/09/20 14:09
5	7934	((stress strain force torque angle angular rotation load) near2 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)),.clm.) and (light).clm.	USPAT; EPO; JPO	2004/09/20 14:19
6	890	(((((stress strain force torque angle angular rotation load) near2 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)),.clm.) and (light).clm.) and (transparent).clm.	USPAT; EPO; JPO	2004/09/20 14:24
7	167	(((((stress strain force torque angle angular rotation load) near2 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)),.clm.) and (light).clm.) and (transparent).clm.) and (optic\$5 near3 (signal ray radiation reflect\$5 wave pulse)).clm.	USPAT; EPO; JPO	2004/09/20 14:15
8	27	((((((stress strain force torque angle angular rotation load) near2 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)),.clm.) and (light).clm.) and (transparent).clm.) and (optic\$5 near3 (signal ray radiation reflect\$5 wave pulse)).clm.) and (shaft near3 rotat\$5)	USPAT; EPO; JPO	2004/09/20 14:16
9	299	((stress strain force torque angle angular rotation load) near2 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)),.clm.) and ((laser optical light) near4 (rotor))clm.	USPAT; EPO; JPO	2004/09/20 14:20
10	12	(((((stress strain force torque angle angular rotation load) near2 (test\$5 detect\$5 sens\$5 estimat\$5 evalut\$5 determin\$5 measur\$5 transducer cell meter gauge monitor\$5)),.clm.) and ((laser optical light) near4 (rotor))clm.) and (transparent).clm.	USPAT; EPO; JPO	2004/09/20 14:20

L Number	Hits	Search Text	DB	Time stamp
43	136	"optical rotary encoder".ti.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:20
47	11	73/862.324.ccls. and ((plurality array multipl\$5 two second three pair) near3 ((light\$4 adj2 emit\$5) "lcd"))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:22
44	164	((light optical) near3 "rotary encoder").ti.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:36
48	2	(((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((rotor rotary) near6 ((plurality array multipl\$5 two second three pair) near3 (light\$4 adj2 emit\$4)))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:39
49	4	(((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((motor actuat\$4) near6 ((plurality array multipl\$5 two second three pair) near3 (light\$4 adj2 emit\$4)))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:39

L Number	Hits	Search Text	DB	Time stamp
4	9608	((torque torsion) near4 (sens\$4 detect\$4 measur\$4 indicat\$4 identif\$4 determin\$4 calculat\$4 cell transducer)).clm.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 08:38
5	6602	((((torque torsion) near4 (sens\$4 detect\$4 measur\$4 indicat\$4 identif\$4 determin\$4 calculat\$4 cell transducer)).clm.) and (frame mount\$4 chassis base))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 08:38
6	47	(((((torque torsion) near4 (sens\$4 detect\$4 measur\$4 indicat\$4 identif\$4 determin\$4 calculat\$4 cell transducer)).clm.) and (frame mount\$4 chassis base)) and (transparent near6 (plate window lense cover)))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 08:39
7	7	(((((torque torsion) near4 (sens\$4 detect\$4 measur\$4 indicat\$4 identif\$4 determin\$4 calculat\$4 cell transducer)).clm.) and (frame mount\$4 chassis base)) and (transparent near6 (plate window lense cover))).clm.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 08:55
10	0	(((((torque torsion) near4 (sens\$4 detect\$4 measur\$4 indicat\$4 identif\$4 determin\$4 calculat\$4 cell transducer)).clm.) and (frame mount\$4 chassis base)) and (detach\$7 near4 (transparent near6 (plate window lense cover))))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 08:56
11	7	(((((torque torsion) near4 (sens\$4 detect\$4 measur\$4 indicat\$4 identif\$4 determin\$4 calculat\$4 cell transducer)).clm.) and (frame mount\$4 chassis base)) and (detach\$7 near6 (plate window lense cover))).clm.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:09
12	506	(detach\$6 near6 (transparent near4 (plate window cover lense lid top)))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 10:26
13	209	((detach\$6 near6 (transparent near4 (plate window cover lense lid top)))) same (frame mount\$4 base chassis)	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:13
14	1	((detach\$6 near6 (transparent near4 (plate window cover lense lid top)))) same chassis	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:15
15	6	("3136947" "3207985" "3133247" "3846677").pn.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:17
16	0	((("3136947" "3207985" "3133247" "3846677").pn.) and light	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:17
17	0	((("3136947" "3207985" "3133247" "3846677").pn.) and optic\$4	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:18
18	193	((detach\$6 near6 (transparent near4 (plate window cover lense lid top)))) and ((light\$4 near3 (source beam emit\$5)) optic\$5)	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:20
19	73	((detach\$6 near6 (transparent near4 (plate window cover lense lid top)))) same (frame mount\$4 base chassis) and ((light\$4 near3 (source beam emit\$5)) optic\$5)	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:21
20	49	(((((detach\$6 near6 (transparent near4 (plate window cover lense lid top)))) same (frame mount\$4 base chassis) and ((light\$4 near3 (source beam emit\$5)) optic\$5)) and (rotor rotat\$4 actuat\$4 motor generator)	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:23
21	34	((detach\$6 near6 (transparent near4 (plate window cover lense lid top)))) same (frame mount\$4 base chassis) and ((plurality two three multipl\$5 second array) near4 ((light\$4 near3 (source beam emit\$5)) optic\$5))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:28
22	28	(((((detach\$6 near6 (transparent near4 (plate window cover lense lid top)))) same (frame mount\$4 base chassis) and ((plurality two three multipl\$5 second array) near4 ((light\$4 near3 (source beam emit\$5)) optic\$5))) and (rotor rotat\$4 actuat\$4 motor generator)	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:29
23	76	((detach\$6 near6 (transparent near4 (plate window cover lense lid top)))) and ((plurality two three multipl\$5 second array) near4 ((light\$4 near3 (source beam emit\$5)) optic\$5))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 09:28
24	61	((detach\$6 near6 (transparent near4 (plate window cover lense lid top)))) and ((plurality two three multipl\$5 second array) near4 ((light\$4 near3 (source beam emit\$5)) optic\$5))) and (rotor rotat\$4 actuat\$4 motor generator)	USPAT; US-PGPUB; EPO; JPO	2004/09/20 10:18
25	23825	((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 10:18

26	1	((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((detach\$6 near6 (transparent near4 (plate window cover lense lid top))))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 10:27
27	12	((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((detach\$6 attach\$6) near6 (transparent near4 (plate window cover lense lid top))))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 11:06
28	658	((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((load and drive) near4 (shaft side portion piece))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 10:57
29	27	(((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((load and drive) near4 (shaft side portion piece))) and (((light\$4 near3 (emit\$4)) "lcd" optic\$4) near6 (rotor motor rotary (rotating adj2 (device apparatus element portion))))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 11:09
30	1	(((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((detach\$6 attach\$6) near6 (transparent near4 (plate window cover lense lid top)))) and (((light\$4 near3 (emit\$4)) "lcd" optic\$4) near6 (rotor motor rotary (rotating adj2 (device apparatus element portion))))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 11:01
31	27	(((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((load and drive) near4 (shaft side portion piece))) and (((light\$4 near3 (emit\$4)) "lcd" optic\$4) near6 (rotor motor rotary (rotating adj2 (device apparatus element portion))))) and (base mount\$4 frame chassis)	USPAT; US-PGPUB; EPO; JPO	2004/09/20 11:11
32	2540	((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((detach\$6 attach\$6) near4 (plate window cover lense lid top))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 11:08
33	446	((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((detach\$6 attach\$6) near4 (plate window cover lid)).clm.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 11:08
34	9	(((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((detach\$6 attach\$6) near4 (plate window cover lid)).clm.) and (((light\$4 near3 (emit\$4)) "lcd" optic\$4) near6 (rotor motor rotary (rotating adj2 (device apparatus element portion))))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 11:10
35	9	(((((torque torsion force) near4 (sens\$4 detect\$4 measur\$4 indicat\$5 monitor\$5 transducer cell gage gauge)).clm.) and ((detach\$6 attach\$6) near4 (plate window cover lid)).clm.) and (((light\$4 near3 (emit\$4)) "lcd" optic\$4) near6 (rotor motor rotary (rotating adj2 (device apparatus element portion))))) and (base mount\$4 frame chassis)	USPAT; US-PGPUB; EPO; JPO	2004/09/20 11:48
36	134	73/862.324.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:02
37	3	("5155468" "4767925" "5907106").pn.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:15
38	1		USPAT	2004/09/20 12:09
39	1		USPAT	2004/09/20 12:09
40	1		USPAT	2004/09/20 12:09
41	1		USPAT	2004/09/20 12:15
42	1		USPAT	2004/09/20 12:15
44	164	((light optical) near3 "rotary encoder").ti.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:17
45	0	"optical rotary encoder".ti. and 73/\$.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:18
46	0	((((light optical) near3 "rotary encoder").ti.) and 73/\$.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:18
43	136	"optical rotary encoder".ti.	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:20

47	11	73/862.324.ccls. and ((plurality array multipl\$5 two second three pair) near3 ((light\$4 adj2 emit\$5) "lcd"))	USPAT; US-PGPUB; EPO; JPO	2004/09/20 12:22
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